



# IMPORTANT IMPROVEMENTS IN WARMING AND VENTILATING CHURCHES, CHAPELS, INFANT AND OTHER SCHOOLS, PUBLIC BUILDINGS AND PRIVATE DWELLINGS, &c. &c.

BY MEANS OF

## PIERCE'S NEWLY-INVENTED PATENT PYRO-PNEUMATIC PURE WARM AIR SELF-ACTING AND VENTILATING STOVE GRATE.

PIERCE exhibits an examination of his newly-invented method of WARMING AND VENTILATING, by means of his Patent Pyro-Pneumatic Stove Grate, which, from the  
**NOVELTY OF ITS PRINCIPLE, SIMPLICITY OF ITS ARRANGEMENTS, AND ELEGANCE OF DESIGN,**  
 combined with its great **ECONOMY IN USE,** renders this grate suitable for any situation where a **POWERFUL DEGREE OF WARMTH,**  
 and the **CHEERFUL OPEN FIRE** are desirable.

PIERCE having at length succeeded in producing that long-sought desideratum—a **HEALTHFUL AND SALUBRIOUS** atmosphere, such as is felt on a pleasant summer's day, which can, by means of this his Patent Pyro-Pneumatic Stove Grate, be enjoyed during the most dull and dreary of our winter months. The above invention is especially adapted for warming churches, infant and other schools, railway offices, entrance halls, banking houses, &c. &c., or any situation where warmth and purity of air are desirable.

IT MAY BE SEEN IN DAILY USE AT THE PATENTEE'S MANUFACTORY.

A. JAMES-STREET, ROYAL-STREET.

also warming the large MODEL ROOM at the SOCIETY OF ARTS, John-street, Adelphi (who have awarded their Honorary Medal to the inventor).

This newly-invented Stove-Grate has received the most favourable notice of the public press, for which see the prospectus and testimonials, to be obtained of the Patentee, at his

MANUFACTORY AND SHOW ROOMS, No. 1, JERMYN-STREET, REGENT-STREET.

### VENTILATION.—TO ARCHITECTS,

**BUILDERS, GAS-FITTERS, AND GENERAL IRON-MONGERS.**—The attention of all concerned to the building and interior arrangements of houses is invited to the improved self-acting CHIMNEY VALVE constructed by Messrs. J. & C. Arnott, on the principle invented and made public by Dr. M. Arnott, with some practical details added by the original design. These valves are now fitted in strong cast-iron boxes, with secret balances and adjusting screws and other improvements, devised on strictly scientific, yet simple principles, and are to be obtained at the following reduced prices:—

Size	Price	Size	Price
No. 1—10 by 7½ by 10	10 0	No. 2—12 by 10 by 12	12 0
No. 3—14 by 12 by 14	14 0	No. 4—16 by 14 by 16	16 0
No. 5—18 by 16 by 18	18 0	No. 6—20 by 18 by 20	20 0

(On receipt of a post-office order payable to Mr. J. High Holborn, including 6d. extra for postage, any of the above sizes will be forwarded to any part of the country, with a sheet of drawings and full directions for fitting, &c.)  
**PLATE NO. 1** and **CO'S WHOLESALE GAS, CHIMNEY, AND FILING MANUFACTORY AND WAREHOUSE, 15 and 16, High Holborn.**

### IMPROVED SELF-ACTING CHIMNEY VENTILATORS.



FOR CARRYING OFF HEATED AND IMPURE AIR FROM KITCHENS, SITTING-ROOMS, BED-ROOMS, BATHROOMS, OFFICES, &c. &c., from the chimney, and into the open air, by means of the improved self-acting CHIMNEY VALVE, &c. &c. The valves are now fitted in strong cast-iron boxes, with secret balances and adjusting screws and other improvements, devised on strictly scientific, yet simple principles, and are to be obtained at the following reduced prices:—

**DR. ARNOTT'S VENTILATING CHIMNEY VALVE.**

With	Constructed
internal	for the
movement,	ventilation
and all the	of
latest	apartments
improvements.	generally.

Plan	First size, 11 by 14	Second size, 14 by 18
Plan Iron Valve	8 0	10 0
Brass and Leathered	10 0	12 0
Brass and White with Gold Trim	12 0	14 0
Brass with Trunk work	14 0	16 0
Brass Front, Lead, or Brass	16 0	18 0
Brass with Trunk work	18 0	20 0

Manufactured by **HART and MOYR, 53, 54, 55, West-End, Strand, London.**—Post-office orders payable at 10, Strand.

### SMOKE CHIMNEYS.—

**"NO CURE NO PAY."**  
**J. WILSON, Bricklayer and Surveyor of Chimneys, 1, Vale place, Manchester.** begs to inform architects, surveyors, builders, and others, that he has patented a perfect cure of chimneys from smoking into rooms, and on the equitable terms of "No cure no pay." References and testimonials of the highest respectability can be given.

**J. B. WILSON & CO'S PATENT CHIMNEY** with the **Curry's Chimney** which have been extensively used for the last four years, can be forwarded in any part of the Kingdom on receipt of a Post-office order. Prices and particulars by return of post. Letters granted to manufacturers.

**MANUFACTORY—VALE PLACE, MANCHESTER.**

### SMOKE CHIMNEYS.—WHITE'S

**UNIVERSAL CHIMNEY PUT or VENTILATING** (patented April 11th, 1849) prevents "down draft" without the usual obstruction; may be fixed to any situation without raising the flue, has no movable parts, and if required may be made to be swept with the common machine, thereby requiring no extra attention for years. As a ventilator for rooms of sitting, sleeping, &c., the qualities are equally good, and both may justly be said to possess all the merits combined in one machine—sold by Messrs. DEAN & CO., London Bridge, and by agents throughout the Kingdom.

To facilitate the application, the proprietor will forward, post free, a paper to the proprietor of the patent, with instructions and label, to any part on receipt of 2s. through the Jersey post office, by which the machine may be constructed at a small expense to the most remote localities. It would be necessary to state the size of the flue, and also whether it is required to be swept from the inside.—**MR. ROYAL WHITE, Proprietor, St. Mark's, Jersey.**

### TO ENGINEERS, BUILDERS, PLUMBERS, &c.

**RAIN-WATER PIPES.**  
 Rain, Snow, and Ebbow, half round and O.G. (Oval), with Wash Wights, Railing Bars, Air Gratings, Air Bricks, down and open Cast Pipes, Sumpers, Tea Lights, Balcony Panels, narrow and narrow ebbows.  
**CAST AND WROUGHT IRONWORK FOR STABLE FITTINGS,** viz.—Rangers, Hay racks, Ramps, Cills, Stable Traps, Gratings, &c. **GAS AND WATER PIPES,** bends, branches, Tee pieces, syphons, and lamp valves; also hot-water pipes for heating buildings and hot-baths, and **FLANGE PIPES,** with all the new improvements. A large stock of the above **CASTINGS** at very low prices, at **JONES'S, Lion Bridge Wharf, St. S. Bankside, Southwark.**

### TO ARCHITECTS, BUILDERS, AND BRICK-MAKERS.

**PUMPS of Superior CONSTRUCTION,** built perfectly true by improved machinery, in various sizes and ornamental patterns for Conservatories, Gardens, Parks, Pleasure, Roads, Gardens, and for Liquid Manure BRICK MAKERS PUMPS, in Wrought and Cast Iron, **HYDRAULIC LIFT PUMPS,** for raising water to any height, and **SINGLE AND DOUBLE PUMPS** for water-lifting bore, kept for hire.

**BENJ. FOWLER** (late of 41, Dorset-street, removed to the new Factory, Whitechapel-street, Fleet-street).



### TO BUILDERS AND PLUMBERS

**THE attention of the**  
 Trade is called to  
**JOHN WARNER & SONS' PATENT VIBRATING STANDARD PUMP.**

which is recommended for the simplicity of its construction, and the ease with which it works.

By the introduction of the vibrating standard the cumbersome carriage and expensive slings and guides are unnecessary, rendering the price considerably less than pumps made on the old plan. Beer and Water Engines for raising fluids from a depth not exceeding 10 feet; also, forced Engines constructed on the same principle.

**JOHN WARNER & SONS,**  
 8, Cross-street, Jewin-street, London, Manufacturers and Patentees.

### PUMPS, WATER-CLOSETS, and

**PLUMBERS' BRASSWORK.**—Pan water closets, with white enamel complete, 12s. each; 14in. 18in. pumps, 6s.; 14in. 18in. pumps, 8s.; 14in. 18in. pumps, 10s. Wall pumps and water for plumbers and carpenters, of every description.—**THOMAS MILLINGTON'S** Manufactory, 5, Bishopsgate Without, London.

### PAN CLOSETS, PUMPS, and

**PLUMBERS' BRASSWORK.**—Pan Closets, with white enamel complete, 12s. each; 14in. 18in. pumps, 6s.; Wall Pumps, 8s. and every description of Plumbers' Brasswork equally low. **W. CHARTERIS** established Manufactory, 34, Clifton-street, Finsbury-square, London. (Also metal Steam Cocks, Safety Valves, and Boilers or draw-off Cocks of all descriptions.)

### GEORGE JENNINGS, 29, Great Charlotte-street, Blackfriars-road, begs to call the

attention of those interested to the following article, which he has invented and patented, **JENNINGS'S PATENT SHUTTER SHOE AND FASTENER.**—The trouble and disfigurement caused by the roughness of the shutter bar is so well known to all persons that it is only necessary to say a shop front receives more injury from the application of the shutter bar than it does from any other cause.

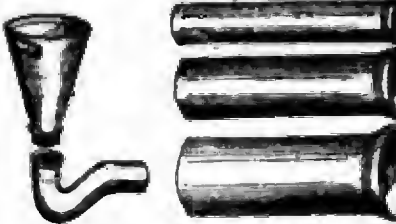


Fig. 1 represents a pair of Jennings's Shutter Shoes and Fasteners, which not only protect the corners of the shutters, but effectually secure them; and the cost of the patent fasteners is less than the destruction and trouble caused by the roughness of the shutter bar. They can be had in mailable form at 2s. per dozen, or in brass of finest quality; and are to be seen at most of the principal shops in London. Reference given to upwards of 1,000 front shops and secured by this simple fastening.—The foregoing, with **JENNINGS'S VALVES**, &c., can be had at this Manufactory, 29, Great Charlotte-street, Blackfriars-road, London.

### JAMES STIFF, MANUFACTURER OF GLAZED STONE WARE DRAIN PIPES,

**BENDS, JOINTS, TRAPS, &c. 20, HIGH STREET, LAMBETH, LONDON. Established 1791.**

Water Closets, Pans, with Syphons, Traps, &c. 6d. each. **STRAIGHT TUBES,** with Socket Joints, from 1 inch to 1 foot length.



1 in. bore, 4 ft. 6 in. 6 in. 8 in. 10 in. 12 in. 14 in. 16 in. 18 in. 20 in. 22 in. 24 in. 26 in. 28 in. 30 in. 32 in. 34 in. 36 in. 38 in. 40 in. 42 in. 44 in. 46 in. 48 in. 50 in. 52 in. 54 in. 56 in. 58 in. 60 in. 62 in. 64 in. 66 in. 68 in. 70 in. 72 in. 74 in. 76 in. 78 in. 80 in. 82 in. 84 in. 86 in. 88 in. 90 in. 92 in. 94 in. 96 in. 98 in. 100 in.

May be had also a **Messrs. GLADDISB'S LIME WHARF**, Peckham, Surrey, near the London and Croydon Railway, and at the **Peckham Wharf, foot of Battersea Bridge, Chelsea; Peckham Wharf, Kings-road, Camden New Town.**

### DRAIN AND WATER PIPES IN GLAZED STONE WARE,

**MANUFACTURED BY HENRY DOULTON AND CO.—OFFICES:** High-street, Lambeth, London.

**MANUFACTORY:** BIRMINGHAM POTTERY, ROWLEY REGIS, STAFFORDSHIRE, and High-street, Lambeth.

**STRAIGHT TUBES, WITH SOCKET JOINTS,** from 1 inch to 24 inches bore.

Dear Sir,—I would respectfully recommend the building profession generally, in future to use no other material than glazed stone-ware Pipes for house drains; and I am quite sure by their so doing they will be conferring a great boon on public health, and that to as extend they little suppose. I also respectfully submit that there is now so reasonable a price for them that no using them, for it has been proved that as regards strength, durability, and economy, they cannot be a better article.

I am, Dear Sir, yours truly,  
**Mr. H. Doulton. JOHN PHILLIPS.**

**JUNCTIONS WITH EASY CONNECTIONS,** as recommended by the Metropolitan Commission of Sewers. **REGISTERED EGO-SHAPED TUBES,** 30 BY 18 IN.; 15 BY 9 IN.; 9 BY 6 IN.; 6 BY 4 IN. **REGISTERED AIR-TIGHT FLAP TRAPS,** COMPOSED ENTIRELY OF GLAZED STONE WARE. **BENDS, JOINTS, AND SYPHON TRAPS** OF EVERY DESCRIPTION.

### TO CONTRACTORS, BUILDERS, PLUMBERS, &c.

**PUMPS.**—**M. A. RICHARDS** keeps a large stock of **WROUGHT AND CAST-IRON PUMPS** of all sizes, suitable for excavations, deep wells, roads, gardens, brick-beds, liquid manure, ships and barges, at reduced prices, engine pumps, hand pumps, &c. &c. With long experience, &c. of any dimensions, made on the shortest notice. Hot-water apparatus for churches, chapels, conservatories, &c. on the most economical and improved principle.—**2, Old Barge House-street, Upper Brompton street, Blackfriars—N.E. Estimate given for all kinds of ironwork.**

### TO PLUMBERS, BUILDERS, AND ENGINEERS.

**CHEAPEST HOUSE IN LONDON** for every description of best Town-made Brass and Copper Work.

### PAN CLOSETS complete, with WHITE

**BRASS, &c.—2 inch LIA Pumps, 6s.; 3 in. 7s.; 4 in. 8s. 6d.; 5 in. 10s. 6d.; 6 in. 12s. 6d.; 7 in. 14s. 6d.; 8 in. 16s. 6d.; 9 in. 18s. 6d.; 10 in. 20s. 6d.; 11 in. 22s. 6d.; 12 in. 24s. 6d.; 13 in. 26s. 6d.; 14 in. 28s. 6d.; 15 in. 30s. 6d.; 16 in. 32s. 6d.; 17 in. 34s. 6d.; 18 in. 36s. 6d.; 19 in. 38s. 6d.; 20 in. 40s. 6d.; 21 in. 42s. 6d.; 22 in. 44s. 6d.; 23 in. 46s. 6d.; 24 in. 48s. 6d.; 25 in. 50s. 6d.; 26 in. 52s. 6d.; 27 in. 54s. 6d.; 28 in. 56s. 6d.; 29 in. 58s. 6d.; 30 in. 60s. 6d.; 31 in. 62s. 6d.; 32 in. 64s. 6d.; 33 in. 66s. 6d.; 34 in. 68s. 6d.; 35 in. 70s. 6d.; 36 in. 72s. 6d.; 37 in. 74s. 6d.; 38 in. 76s. 6d.; 39 in. 78s. 6d.; 40 in. 80s. 6d.; 41 in. 82s. 6d.; 42 in. 84s. 6d.; 43 in. 86s. 6d.; 44 in. 88s. 6d.; 45 in. 90s. 6d.; 46 in. 92s. 6d.; 47 in. 94s. 6d.; 48 in. 96s. 6d.; 49 in. 98s. 6d.; 50 in. 100s. 6d.; 51 in. 102s. 6d.; 52 in. 104s. 6d.; 53 in. 106s. 6d.; 54 in. 108s. 6d.; 55 in. 110s. 6d.; 56 in. 112s. 6d.; 57 in. 114s. 6d.; 58 in. 116s. 6d.; 59 in. 118s. 6d.; 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